

Ingeo™ 6201D

Poly(lactic Acid)

NatureWorks® LLC

产品说明

Ingeo biopolymer 6201D, a NatureWorks LLC product, is a thermoplastic fiber-grade resin derived primarily from annually renewable resources. Available in pellet form, 6201D is designed for extrusion into mechanically drawn staple fibers or continuous filament, using conventional fiber spinning and drawing equipment. 6201D is typically well suited for fiber processes where lower fiber shrinkage is desired: partially orientated yarn (POY), fully drawn yarn (FDY), staple fibers, and continuous filament. Ingeo biopolymer 6201D can be converted into a broad range of fiber products.

Potential applications for PLA polymer 6201D include:

Woven and knitted 100% continuous filament apparel

Woven and knitted, intimate

Staple blend fabrics including blends with cotton, wool, and other fibers

Woven and knitted fabrics and netting for civil engineering applications

Home furnishings

基本信息			
特性	可堆肥 食品接触的合规性	可更新资源 收缩性低	生物可降解
用途	短纤维 细丝	纺织应用 线	家用货品 织物
机构评级	FDA 食品接触, 未评级	欧洲 10/1/2011 12:00:00 AM	欧洲 2002/72/EC
形式	粒子		
加工方法	纤维(纺纱)挤出		
物理性能	额定值	单位制	测试方法
比重	1.24	g/cm ³	ASTM D792
熔流率(熔体流动速率) (210°C/2.16 kg)	15 到 30	g/10 min	ASTM D1238
收缩性			ASTM D2102
Boiling Water	5.0 到 15	%	ASTM D2102
Hot Air : 130°C ¹	5.0 到 15	%	ASTM D2102
相对粘度	3.10		内部方法
弹性模量	30.0 到 40.0	g/denier	ASTM D2256
Denier - per filament	> 0.500		
Elongation of Fibers	10 到 70	%	ASTM D2256
Tenacity of Fibers	2.50 到 5.00	g/denier	ASTM D2256
热性能	额定值	单位制	测试方法
玻璃转化温度	55.0 到 60.0	°C	ASTM D3417
结晶峰温度 (DSC)	155 到 170	°C	ASTM D3418
充模分析	额定值	单位制	测试方法
熔体密度 (230°C)	1.08	g/cm ³	
挤出	额定值	单位制	
干燥温度	80.0	°C	
干燥时间	4.0 到 6.0	hr	
建议的最大水分含量	< 5.0E-3	%	

熔体温度	220 到 240	°C
------	-----------	----

备注

1.	10 min
----	--------